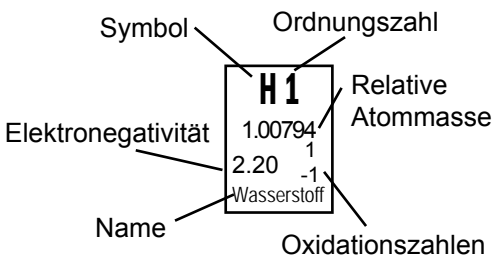


Prof Mokeur PSE

1 IA																	18 VIIIA							
H 1 1.00794 2.20 ¹ Wasserstoff																	He 2 4.002602 - 0 Helium							
2	Li 3 6.941 0.98 ¹ Lithium	Be 4 9.012182 1.57 ² Beryllium																	B 5 10.811 2.04 ³ Bor	C 6 12.0107 2.55 ⁴ Kohlenstoff	N 7 14.0067 3.04 ^{5,3} Stickstoff	O 8 15.9994 3.44 ⁻² Sauerstoff	F 9 18.998403 3.98 ⁻¹ Fluor	Ne 10 20.1797 - 0 Neon
3	Na 11 22.989769 0.93 ¹ Natrium	Mg 12 24.3050 1.31 ² Magnesium	III B	IV B	V B	V I B	V II B	V III		I B	I I B	Al 13 26.981539 1.61 ³ Aluminium	Si 14 28.0855 1.90 ⁴ Silicium	P 15 30.973762 2.19 ^{5,3} Phosphor	S 16 32.065 2.58 ^{6,4,2} Schwefel	Cl 17 35.453 3.16 ^{7,5,3,1} Chlor	Ar 18 39.948 - 0 Argon							
4	K 19 39.0983 0.82 ¹ Kalium	Ca 20 40.078 1.0 ² Calcium	Sc 21 44.95592 1.36 ³ Scandium	Ti 22 47.867 1.54 ⁴ Titan	V 23 50.9415 1.63 ⁵ Vanadium	Cr 24 51.9961 1.66 ^{6,3} Chrom	Mn 25 54.938045 1.55 ^{7,4,2} Mangan	Fe 26 55.845 1.83 ^{3,2} Eisen	Co 27 58.933195 1.88 ^{3,2} Cobalt	Ni 28 58.6934 1.91 ² Nickel	Cu 29 63.546 1.9 ^{2,1} Kupfer	Zn 30 65.38 1.65 ² Zink	Ga 31 69.723 1.81 ³ Gallium	Ge 32 72.64 2.01 ^{4,2} Germanium	As 33 74.92160 2.18 ^{5,3} Arsen	Se 34 78.96 2.55 ^{6,4,2} Selen	Br 35 79.904 2.96 ^{7,5,3,1} Brom	Kr 36 83.798 3.00 ^{0,2} Krypton						
5	Rb 37 85.4678 0.82 ¹ Rubidium	Sr 38 87.62 0.95 ² Strontium	Y 39 88.90585 1.22 ³ Yttrium	Zr 40 91.224 1.33 ⁴ Zirkonium	Nb 41 92.90638 1.6 ⁵ Niob	Mo 42 95.96 2.16 ^{6,4} Molybdän	Tc 43 98.9062 1.9 ^{7,4} Technetium	Ru 44 101.07 2.2 ^{4,3} Ruthenium	Rh 45 102.90550 2.28 ³ Rhodium	Pd 46 106.42 2.2 ^{4,2} Palladium	Ag 47 107.8682 1.93 ¹ Silber	Cd 48 112.411 1.69 ² Cadmium	In 49 114.818 1.78 ³ Indium	Sn 50 118.710 1.96 ^{4,2} Zinn	Sb 51 121.760 2.05 ^{5,3} Antimon	Te 52 127.60 2.1 ^{6,4,2} Tellur	I 53 126.90447 2.66 ^{7,5,3,1} Iod	Xe 54 131.293 2.6 ^{0,6} Xenon						
6	Cs 55 132.90545 0.79 ¹ Cäsium	Ba 56 137.327 0.89 ² Barium	La 57 138.90547 1.1 ³ Lanthan	Hf 72 178.49 1.3 ⁴ Hafnium	Ta 73 180.94788 1.5 ⁵ Tantal	W 74 183.84 2.36 ^{6,4} Wolfram	Re 75 186.207 1.9 ⁴ Rhenium	Os 76 190.23 2.2 ⁴ Osmium	Ir 77 192.217 2.2 ^{4,3} Iridium	Pt 78 195.084 2.28 ^{4,2} Platin	Au 79 196.96657 2.54 ³ Gold	Hg 80 200.59 2.0 ^{2,1} Quecksilber	Tl 81 204.3833 1.62 ^{3,1} Thallium	Pb 82 207.2 2.33 ^{4,2} Bley	Bi 83 208.98040 2.02 ³ Bismut	Po 84 208.9824 2.0 ^{4,2} Polonium	At 85 209.9871 2.2 ⁻¹ Astat	Rn 86 222.0176 2.2 ⁰ Radon						
7	Fr 87 223.0197 0.7 ¹ Francium	Ra 88 226.0254 0.9 ² Radium	Ac 89 227.0278 1.1 ³ Actinium	Rf 104 261.11 - - Rutherfordium	Db 105 262.11 - - Dubnium	Sg 106 263.12 - - Seaborgium	Bh 107 262.12 - - Bohrium	Hs 108 264 - - Hassium	Mt 109 266.1378 - - Meitnerium	Ds 110 269 - - Darmstadtium	Rg 111 272 - - Roentgenium	Cn 112 277 - - Copernicium	Uut 113 284 - - Ununtrium	Fl 114 289 - - Flerovium	Uup 115 288 - - Ununpentium	Lv 116 292 - - Livermorium	Uus 117 293 - - Ununseptium	Uuo 118 294 - - Ununoctium						



Legend for element groups:

- Alkalimetalle (Yellow)
- Erdalkalimetalle (Orange)
- Uebergangselemente (Red)
- Metalle (Purple)
- Halbmetalle (Blue)
- Nichtmetalle (Light Blue)
- Halogene (Green)
- Edelgase (Light Green)
- Lanthanoide und actinoide (Grey)

Lanthanoides	6	Ce 58 140.116 1.12 ^{4,3} Cer	Pr 59 140.90765 1.13 ³ Praseodym	Nd 60 144.242 1.14 ³ Neodym	Pm 61 144.9127 1.13 ³ Promethium	Sm 62 150.36 1.17 ³ Samarium	Eu 63 151.964 1.2 ^{3,2} Europium	Gd 64 157.25 1.2 ³ Gadolinium	Tb 65 158.92535 1.1 ³ Terbium	Dy 66 162.500 1.22 ³ Dysprosium	Ho 67 164.93032 1.23 ³ Holmium	Er 68 167.259 1.24 ³ Erbium	Tm 69 168.93421 1.25 ³ Thulium	Yb 70 173.054 1.1 ³ Ytterbium	Lu 71 174.9668 1.27 ³ Lutetium
Actinoides	7	Th 90 232.03806 1.3 ⁴ Thorium	Pa 91 231.03588 1.5 ⁵ Protactinium	U 92 238.02891 1.38 ⁶ Uran	Np 93 237.0482 1.36 ⁵ Neptunium	Pu 94 244.0642 1.28 ⁴ Plutonium	Am 95 243.0614 1.13 ³ Americium	Cm 96 247 1.28 ³ Curium	Bk 97 247.0703 1.3 ³ Berkelium	Cf 98 251.0796 1.3 ³ Californium	Es 99 252.03 1.3 ³ Einsteinium	Fm 100 257.0951 1.3 ³ Fermium	Md 101 258.01 1.3 ³ Mendelevium	No 102 259.1009 1.3 ³ Nobelium	Lr 103 260.1053 1.3 ³ Lawrencium